



## EMBEDDED PLATE "B-1" DETAILS

TWO EMBEDDED PLATES "B-1" ARE REQUIRED FOR EACH GIRDER.

·					— DE	EAD I	_OAD	DEF	LEC	ΓΙΟΝ	TAB	LE F	FOR	GIRD	ERS-								
						SP	ANS A	AND	С									SPA	N B				
1/2"Ø LOW RELAXATION		GIRDERS 1 THRU 4 GIRDERS 1 THRU 4																					
TENTH POINTS		0	.1	.2	<b>.</b> 3	.4	<b>.</b> 5	.6	.7	.8	.9	0	0	.1	.2	<b>.</b> 3	.4	<b>.</b> 5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE)	<b>†</b>	0	.010	.018	.025	.029	.031	.029	.025	.018	.010	0	0	.071	<b>.</b> 135	.184	.216	.227	.216	.184	.135	.071	0
* DEFLECTION DUE TO SUPERIMPOSED D.L.	<b>\</b>	0	.005	.010	.014	.016	.017	.016	.014	.010	.005	0	0	.033	.062	.085	.099	.104	.099	.085	.062	.033	0
FINAL CAMBER	1	0	1/16"	1/8"	1/8"	3/16"	3/16"	3/16"	1/8"	1/8"	1/16"	0	0	1/2"	15/16"	11/4"	17/16"	11/2"	17/16"	11/4"	15/16"	1/2"	0

\*INCLUDES FUTURE WEARING SURFACE ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).

ASSEMBLED BY: N.Q. TRAN DATE: 4-14-03 CHECKED BY: T.A. WALTER DATE: 9-30-03 DRAWN BY: ELR 8/91 REV. 2/6/97 EEM/RGW REV. 7/17/98 RWW/LES REV. 10/17/00 RWW/LES

TIE ROD ASSEMBLY SHALL BE AASHTO M270 GRADE 36 STRUCTURAL STEEL. ALL REINFORCING STEEL SHALL BE GRADE 60. APPLY EPOXY PROTECTIVE COATING TO END OF GIRDER SURFACES FOR SPANS A & C AS

INDICATED IN ELEVATION VIEW. FOR EPOXY PROTECTIVE COATING, SEE SPECIAL PROVISIONS. EMBEDDED PLATE "B-1" SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATIONS. BEVEL EDGES OF PLATE "B-1" TO GIVE CLOSE FIT BUT NOT TIGHT FIT TO STEEL

ANCHOR STUDS SHALL CONFORM TO AASHTO M169 GRADES 1010 THROUGH 1020 OR APPROVED EQUAL, AND SHALL MEET THE TYPE "B" REQUIREMENTS OF SUBSECTION 7.3 OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.

AT ENDS OF GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS OR END WALLS, PRESTRESSING STRANDS MAY EXTEND A MAXIMUM OF 2" BEYOND THE GIRDER ENDS. OTHERWISE, PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.

NOTES

BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

CASTING FORM.

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW-RELAXATION GRADE 270 STRANDS

AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI. FOR GIRDERS IN SPANS A & C AND 5500 PSI FOR GIRDERS IN SPAN B.

DEPENDING ON THE TYPE OF SYSTEM USED TO SUPPORT THE DECK SLAB FORMS, PRESET ANCHORS MAY BE NECESSARY IN THE PRESTRESSED CONCRETE GIRDER.

THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 4", SHALL BE RAKED TO A DEPTH OF  $\frac{1}{4}$ ".

WHEN DRAPED STRANDS ARE DETAILED, THE LONGITUDINAL LOCATION OF THE HOLD DOWN DEVICES SHALL BE WITHIN 6" OF THE LOCATION SHOWN AND THE CENTER OF GRAVITY OF THE GROUP OF DRAPED STRANDS SHALL BE LOCATED WITHIN 1/2" OF THE THEORETICAL LOCATION SHOWN.

FOR VERTICAL CRACKS IN PRESTRESSED CONCRETE GIRDERS PRIOR TO DETENSIONING. SEE SPECIAL PROVISIONS.

> PROJECT NO. B-3649 GUILFORD \_ COUNTY STATION: 17+39.20 -L

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

AASHTO TYPE III PRESTRESSED CONCRETE GIRDER DETAIL

	SHEET NO.				
BY:	DATE:	NO.	BY:	DATE:	S-14
		3			TOTAL SHEETS
		4			32